

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

L Number	Hits	Search Text	DB	Time stamp
6	6	(US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.	USPAT; US-PGPUB	2004/07/16 08:00
7	167	location same document same vector	USPAT; US-PGPUB	2004/07/16 07:37
8	0	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (location same document same vector)	USPAT; US-PGPUB	2004/07/16 07:37
9	13771	location same document	USPAT; US-PGPUB	2004/07/16 07:38
10	1	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (location same document)	USPAT; US-PGPUB	2004/07/16 07:37
11	17008	location same vector	USPAT; US-PGPUB	2004/07/16 07:38
12	1	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (location same vector)	USPAT; US-PGPUB	2004/07/16 07:45
13	1	("5604910").PN.	USPAT; US-PGPUB	2004/07/16 07:45
14	622793	memory	USPAT; US-PGPUB	2004/07/16 07:46
15	6	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and memory	USPAT; US-PGPUB	2004/07/16 07:46
16	1683350	apparatus	USPAT; US-PGPUB	2004/07/16 07:46
17	1	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and apparatus	USPAT; US-PGPUB	2004/07/16 07:47
18	1194664	signal	USPAT; US-PGPUB	2004/07/16 07:47
19	2	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and signal	USPAT; US-PGPUB	2004/07/16 07:47
20	586	vector and (normalization adj factor)	USPAT; US-PGPUB	2004/07/16 07:50
21	2	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (vector and (normalization adj factor))	USPAT; US-PGPUB	2004/07/16 07:50
22	1202303	multipl\$5	USPAT; US-PGPUB	2004/07/16 07:52
24	16155	floating adj point\$3	USPAT; US-PGPUB	2004/07/16 07:51
25	0	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (vector and (normalization adj factor))) and (floating adj point\$3)	USPAT; US-PGPUB	2004/07/16 07:51
26	145033	floating	USPAT; US-PGPUB	2004/07/16 07:51
27	0	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (vector and (normalization adj factor))) and floating	USPAT; US-PGPUB	2004/07/16 07:51

28	0	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (floating adj point\$3)	USPAT; US-PGPUB	2004/07/16 07:52
29	5	((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and multipl\$5 (((US-6633868-\$ or US-5488725-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (vector and (normalization adj factor))) and multipl\$5 normalization adj factor	USPAT; US-PGPUB	2004/07/16 07:52
23	2	number same occurrence\$2	USPAT; US-PGPUB	2004/07/16 07:52
30	1391	(normalization adj factor) and (number same occurrence\$2)	USPAT; US-PGPUB	2004/07/16 08:01
31	47969	(normalization adj factor) same (number same occurrence\$2)	USPAT; US-PGPUB	2004/07/16 08:01
32	108	sum or summation	USPAT; US-PGPUB	2004/07/16 08:01
33	5	(normalization adj factor) sum or summation	USPAT; US-PGPUB	2004/07/16 08:02
34	347341	(normalization adj factor) and (sum or summation)	USPAT; US-PGPUB	2004/07/16 08:03
35	871	square adj root\$2	USPAT; US-PGPUB	2004/07/16 08:03
36	34001	((normalization adj factor) and (sum or summation)) and (square adj root\$2)	USPAT; US-PGPUB	2004/07/16 08:03
37	197	(normalization adj factor) same (sum or summation)	USPAT; US-PGPUB	2004/07/16 08:03
38	214	((normalization adj factor) same (sum or summation)) same (square adj root\$2)	USPAT; US-PGPUB	2004/07/16 08:03
39	15	(normalization adj factor) same (square adj root\$2)	USPAT; US-PGPUB	2004/07/16 08:05
40	46	((normalization adj factor) same (square adj root\$2)) and (sum or summation)	USPAT; US-PGPUB	2004/07/16 08:05
41	36	matrix	USPAT; US-PGPUB	2004/07/16 08:05
-	349294	sparse	USPAT; US-PGPUB	2004/07/14 15:22
-	10084	sparse adj matrix	USPAT; US-PGPUB	2004/07/14 15:22
-	635	(vector and (normalization adj factor)) and (sparse adj matrix)	USPAT; US-PGPUB	2004/07/14 15:22
-	5	(707/3).CCLS.	USPAT; US-PGPUB	2004/07/15 10:07
-	4019	(707/5).CCLS.	USPAT; US-PGPUB	2004/07/15 10:08
-	1415		USPAT; US-PGPUB	

-	50	("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920") .pn.	USPAT; US-PGPUB	2004/07/15 10:08
---	----	--	--------------------	------------------

-	49	("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056" "5483650" "5583762" "5745602" "5787420" "5911140" "5778397" "5819220" "5999664" "6038557" "6167398" "6223145" "6223145" "6236768" "6289342" "6430551" "6430575" "6562077" "6603582" "6665841" "5243520" "6334102" "5557689" "5640466" "6456743" "5287278" "5331556" "5500796" "5687254") .pn.	USPAT; US-PGPUB	2004/07/15 10:08
---	----	--	--------------------	------------------

-	4874	((707/3).CCLS.) or ((707/5).CCLS.) or (("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920").pn.) or (("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056"	USPAT; US-PGPUB	2004/07/15 10:08
Search History	7/16/04 1:32:29 AM	Page 5		

-	353	(vector and (normalization adj factor)) and matrix	USPAT; US-PGPUB	2004/07/15 10:23
---	-----	---	--------------------	------------------

		5 (((707/3).CCLS.) or ((707/5).CCLS.) or ("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920").pn.) or ("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056" "5483650" "5503762")	USPAT; US-PGPUB	2004/07/15 10:18
Search History	7/16/04 9:32:29 AM	Page 7		
C:\APPS\EAST\Workspaces\5503762	"5745602"			
	"5787420"			

-	3879	first adj vector	USPAT; US-PGPUB	2004/07/15 10:18
---	------	------------------	--------------------	------------------

-	32	((707/3).CCLS.) or ((707/5).CCLS.) or (("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920").pn.) or (("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056"	USPAT; US-PGPUB	2004/07/15 10:18
Search History	7/16/04 9:32:29 AM	Page 9		

-	3771	second adj vector	USPAT; US-PGPUB	2004/07/15 10:19
---	------	-------------------	--------------------	------------------

-	25	((((707/3).CCLS.) or ((707/5).CCLS.) or (("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920").pn.) or ((("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056"	USPAT; US-PGPUB	2004/07/15 10:19
---	----	--	--------------------	------------------

-	880	third adj vector	USPAT; US-PGPUB	2004/07/15 10:19
---	-----	------------------	--------------------	------------------

-	10	((((707/3).CCLS.) or ((707/5).CCLS.) or (("5675819" "6137911" "6189002" "6697798" "6173275" "5974412" "6020972" "5619709" "5794178" "5951623" "6418431" "5278980" "6532469" "5787422" "5999927" "6289353" "6523026" "5848191" "5850476" "5892842" "5689716" "6070133" "5442778" "5384863" "5950196" "6564202" "6567797" "6598043" "6598054" "6728752" "5701469" "6502091" "5642435" "4358824" "6658626" "6297824" "5826261" "5544049" "5752051" "6185592" "5542090" "5724571" "6105023" "6112203" "6167368" "6269153" "6513027" "6519586" "5384703" "5500920") .pn.) or ((("5519608" "5696962" "6094649" "6493709" "5390259" "5491760" "6295533" "6349276" "6418432" "6601026" "6665666" "6735592" "6360011" "6424971" "5590317" "5907821" "6701305" "5587902" "5999949" "6408266" "6182095" "5873056"	USPAT; US-PGPUB	2004/07/15 10:19
Search History	7/16/04 9:32:29 AM	Page 13		

-		6	(US-5488725-\$ or US-6633868-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.	USPAT; US-PGPUB	2004/07/15 10:26
-		2	((US-5488725-\$ or US-6633868-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and (normalization adj factor)	USPAT; US-PGPUB	2004/07/15 10:24
-	38918		dictionary	USPAT; US-PGPUB	2004/07/15 10:27
-		3	((US-5488725-\$ or US-6633868-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and dictionary	USPAT; US-PGPUB	2004/07/15 10:27
-	240749		integer\$2	USPAT; US-PGPUB	2004/07/15 10:27
-		0	((((US-5488725-\$ or US-6633868-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and dictionary) and integer\$2	USPAT; US-PGPUB	2004/07/15 10:28
-		1	((US-5488725-\$ or US-6633868-\$ or US-6684205-\$ or US-6542896-\$ or US-5604910-\$).did. or (US-20040049503-\$).did.) and integer\$2	USPAT; US-PGPUB	2004/07/15 10:30